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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/700,373	11/03/2003	Jaeho Kim.	279.311US2	5975
	7590 09/20/2004		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			HOANG, TU BA	
	IS, MN 55402		ART UNIT PAPER NUMBE	
			3742	

DATE MAILED: 09/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
1,	10/700,373	KIM, JAEHO	$\bigvee_{i} \mathcal{O}_{i}$
Office Action Summary	Examiner	Art Unit	
	Tu Ba Hoang	3742	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repositive of the period for reply specified above, the maximum statutory period far reply within the set or extended period for reply will, by statuted the period for reply will, by statuted the period for reply will, so the period for reply will be pe	136(a). In no event, however, may a soly within the statutory minimum of this will apply and will expire SIX (6) MON e. cause the application to become A	reply be timely filed ty (30) days will be considered time THS from the mailing date of this of the of	aly. communication.
Status			
1) Responsive to communication(s) filed on	·		
2a)☐ This action is FINAL . 2b)☒ Thi	s action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under			e merits is
Disposition of Claims			
4) ☐ Claim(s) 21-31 is/are pending in the application 4a) Of the above claim(s) is/are withdrates 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 21-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 03 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the Examine 11. 	are: a)⊠ accepted or b)□ drawing(s) be held in abeyar tion is required if the drawing(ice. See 37 CFR 1.85(a). (s) is objected to. See 37 Cl	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National	Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview S	ummary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/03/03. 	Paper No(s)/Mail Date formal Patent Application (PTC)-152)

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 21, "means or interpreting sensed signals" recited at line 4 renders the claim indefinite because it can not be clearly understood. There is a missing text between "means" and "interpreting" and it is believed that the word "or" is misspelled. It should be "for" instead. The recitation of "sensed signals" at line 4 is also considered indefinite since it is unclear for where these sensed signals came from. Such "sensed signals" must be clearly defined. It also noted that the comma after "device" recited at line 1 should also be deleted.

In claim 23, there is insufficient antecedent basis for "the specificity" recited at line 1 in the claim or from the preceding claim 21. Such "specificity" must be clearly defined.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21; 22-25; 26; 27 and 29; and 28 and 30 –31 (in the respective order) are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1; 3-6; 2; 7; and 8 of U.S. Patent No. 6,643,547. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons: the patent claimed "an atrial sensing channel for sensing atrial depolarizations" is obviously the same as the claimed "means for sensing channel for sensing ventricular depolarizations" is also obviously the same as the "means for sensing ventricular depolarizations" recited in the claim of the instant application, and furthermore the patent claimed "a controller for interpreting

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sensed signals generated by the sensing channels and detecting atrial or ventricular senses when the sensed signals exceed respective atrial and ventricular sensing threshold values; wherein the controller is configured to measure atrial and ventricular rates; wherein the controller is programmed to blank the atrial sensing channel after detection of a ventricular sense for a specified blanking interval; and wherein the controller is configured to shorten the specified blanking interval when a ventricular rate above a specified limit rate is detected" is obviously the same as the recitation of "means [f]or interpreting sensed signals and detecting atrial or ventricular senses when the sensed signals exceed respective atrial and ventricular sensing threshold values; means for measuring atrial and ventricular rates; means for blanking the atrial sensing means for a blanking interval after detection of a ventricular sense; and means for shortening the blanking interval when a ventricular rate above a specified limit rate is detected". It is clearly that such detailed structural limitations of the sensing channels and the controller recited in the patent claim would obviously cover the broader "means plus function" such as "means for sensing", "means for interpreting and detecting", "means for measuring", "means for blanking", and "means for shortening" recited in the claim of the instant application and since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent and moreover, the subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter as previously set forth above.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See also MPEP § 804.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not show or fairly suggest a device and method thereof for operating a cardiac rhythm management device, wherein the atrial sensing channel (or atrial sensing means) is blanking after detection of a ventricular sense for a specified blanking interval and then the blanking interval is shortened when the ventricular rate above a specified limit rate is detected. It is noted that the Patent to Mann et al (US 4,825,870) cited by the Applicant while discloses a pacemaker having crosstalk protection feature in which the depolarization of the atria or ventricles in response to an externally generated stimulation pulse, such as the A-pulse or V-pulse of the pacemaker, are represented as a negative going Pp-wave or Rp-wave (stimulation pulse applied to the right ventricle), and prior to the termination of the AV interval (atrial stimulation pulse) or AVI (which has three subintervals: a blanking period, all sensing is disabled and the blanking is not directed solely to the atrial channel.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Nappholz et al (US 5,312,445) and Boute (US 5,534,016).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Ba Hoang whose telephone number is (703) 308-3303. The examiner can normally be reached on Mon-Fri from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu Ba Hoang Primary Examiner Art Unit 3742

September 13, 2004